

**SERIAL DATA INTERFACE SYSTEM AND METHOD USING A
SELECTIVELY ACCESSED TONE PATTERN GENERATOR**

ABSTRACT OF THE DISCLOSURE

A system and method performs speed and connection handshaking between Beta signal ports and/or a Bilingual ports in a serial data interface system. A tone pattern generator (e.g., a flip-flop) can be used to generate a tone pattern signal representing approximately 49MHz to approximately 62MHz. A selecting system (e.g., a multiplexer, a digital multiplexer, or the like) selectively transmits either the tone pattern signal or a data input signal. These signals include a driver control signal. A serializer serializes either the tone pattern signal or the data input signal. A clock device (e.g., a clock divider) drives the tone pattern generator and the serializer. A driver receives and differentially transmits, along a twister-wire pair, either the serialized tone pattern signal or the serialized data input signal.

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